Performance Data Sheet

AVA5538EXC

General Information

Model	AVA5538EXC	**Refrigerant**	R-22
Test Condition	ASHRAE	**Performance Test Voltage**	240V ~ 50HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	9510	8450					
	Watts	1260	1220					
	Amps	9.07	8.98					
	Lb/h	125	114					
-10	Btu/h	10400	9320	8180				
	Watts	1380	1380	1340				
	Amps	9.45	9.43	9.33				
	Lb/h	135	125	113				
-5	Btu/h	11600	10600	9420	8180			
	Watts	1490	1520	1510	1480			
	Amps	9.80	9.85	9.82	9.71			
	Lb/h	150	140	130	117			
0	Btu/h	13200	12200	11000	9730	8350		
	Watts	1590	1650	1670	1670	1640		
	Amps	10.1	10.2	10.3	10.2	10.1		
	Lb/h	169	161	151	139	125		
5	Btu/h	15300	14200	12900	11600	10100		
	Watts	1680	1760	1820	1850	1850		
	Amps	10.4	10.6	10.7	10.7	10.7		
	Lb/h	193	185	176	164	150		
10	Btu/h	17700	16500	15200	13800	12200	10600	8800
	Watts	1760	1870	1960	2010	2050	2050	2030
	Amps	10.6	10.8	11.0	11.2	11.2	11.2	11.2
	Lb/h	222	214	205	194	180	163	144
15	Btu/h	20600	19200	17800	16200	14600	12800	10900
	Watts	1820	1960	2080	2160	2230	2260	2280
	Amps	10.8	11.1	11.4	11.6	11.7	11.8	11.8
	Lb/h	256	248	239	227	213	196	176
20	Btu/h	23800	22300	20700	19000	17200	15300	13200
	Watts	1870	2040	2180	2300	2390	2460	2500
	Amps	10.9	11.3	11.7	12.0	12.2	12.4	12.5
	Lb/h	294	286	276	264	250	232	212

25	Btu/h	27500	25800	24000	22100	20100	18000	15700
	Watts	1910	2110	2280	2420	2540	2640	2710
	Amps	11.0	11.5	11.9	12.3	12.6	12.9	13.1
	Lb/h	336	328	318	305	290	272	250
30	Btu/h	31500	29600	27700	25600	23300	21000	18500
	Watts	1940	2160	2360	2530	2680	2800	2900
	Amps	11.0	11.6	12.1	12.6	13.0	13.4	13.7
	Lb/h	384	375	364	350	334	315	292
35	Btu/h	35900	33900	31600	29300	26800	24200	21500
	Watts	1960	2210	2430	2630	2800	2950	3080
	Amps	11.1	11.7	12.3	12.9	13.4	13.8	14.2
	Lb/h	435	425	413	399	381	361	337
40	Btu/h	40800	38400	35900	33300	30600	27700	24700
	Watts	1960	2240	2480	2710	2910	3080	3240
	Amps	11.0	11.8	12.5	13.1	13.7	14.2	14.7
	Lb/h	491	480	467	451	432	410	384
45	Btu/h	46000	43400	40600	37700	34600	31500	28100
	Watts	1960	2250	2520	2770	3000	3200	3380
	Amps	11.0	11.8	12.6	13.3	14.0	14.6	15.2
	Lb/h	551	539	524	506	486	462	435
50	Btu/h	51600	48700	45600	42300	39000	35500	31800
	Watts	1940	2250	2550	2820	3070	3300	3510
	Amps	10.9	11.8	12.6	13.4	14.2	14.9	15.6
	Lb/h	615	601	585	566	543	517	488
55	Btu/h	57700	54400	50900	47300	43600	39700	35700
	Watts	1900	2240	2560	2860	3130	3380	3620
	Amps	10.7	11.7	12.7	13.6	14.4	15.3	16.0
	Lb/h	684	668	649	628	604	576	544

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.772816E+04	-3.551182E+01	6.625872E+00	2.228841E+02
C2	4.107249E+02	-2.534924E+01	-3.823679E-02	2.713506E+00
C3	-7.647218E+00	3.465857E+01	6.994382E-02	-9.388796E-01
C4	1.259553E+01	-1.036041E-01	-1.012716E-03	1.333184E-01
C5	-2.028934E-01	5.021020E-01	9.355456E-04	2.777937E-02
C6	-6.380419E-01	-1.917758E-01	-3.176634E-04	7.947384E-03
C7	-3.720113E-04	-1.523798E-04	3.460966E-07	-8.112709E-05
C8	-5.754503E-02	-1.538237E-03	2.239119E-06	-4.758164E-04
C9	-3.994366E-03	5.903695E-04	3.045611E-06	-8.929570E-05
C10	4.212928E-04	1.611188E-04	-1.769545E-07	-5.779998E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature